GENERAL NOTES

ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING PRACTICE.

ALL DIMENSIONS TO BE CHECKED PRIOR TO STARTING THE WORKS ON SITE. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

CONTRACTOR TO ASCERTAIN THE LOCATION OF SERVICES ON SITE PRIOR TO STARTING THE WORK AND ENSURE **NO** THIRD PARTY SERVICES TRAVEL THROUGH OR UNDER THE SUBSTATION.

MASONRY

ALL MASONRY TO BE IN ACCORDANCE WITH BS5628-3:2001.

INNER AND OUTER SKINS SHALL BE LAID IN STRETCHER BOND. AND TIED WITH STAINLESS STEEL WALL TIES; MINIMUM DIAMETER "DOUBLE TRIANGLE", VERTICAL TWIST FISHTAIL. TIES SHALL BE EVENLY DISTRIBUTED AT MAXIMUM 300mm CENTRES VERTICALLY AND 375MM HORIZONTALLY, STAGGERED IN ALTERNATIVE COURSES WITH ADDITIONAL TIES AT OPENINGS.

THE WALLS SHALL COMPRISE OF AN OUTER SKIN OF FACING BRICKWORK OR COURSE STONE TO MATCH ADJACENT PROPERTIES, AND AN INNER SKIN OF SOLID FAIR-FACED CONCRETE BLOCKS. BRICKS MAY BE USED FOR THE INNER SKIN.
THE MINIMUM OF BELOW GROUND MASONRY WILL BE HIGH DENSITY (HD) CATEGORY I CLAY BRICKWORK OF MINIMUM 75N/mm² MEAN COMPRESSIVE STRENGTH, 7.0% MAXIMUM MOISTURE ABSORPTION AND DURABILITY DESIGNATION F2 S2 (EX 'ENGINEERING CLASS B' QUALITY OR EQUIVALENT).

EXTERNAL MASONRY SHALL BE CLAY-FACING BRICKWORK OF MINIMUM 9N/mm² MEAN COMPRESSIVE STRENGTH AND A DURABILITY DESIGNATION F1 S2 OR BETTER.

INTERNAL MASONRY SHALL BE LIGHT COLOURED SOLID SMOOTH FAIR FACED CONCRETE FACING BLOCKWORK WITH A MINIMUM COMPRESSIVE STRENGTH OF 3.6N/mm² AND A DRY DENSITY OF 600kg/m³

THE DPC, TO BOTH INTERNAL AND EXTERNAL WALL SKINS, SHALL COMPRISE 2 COURSES OF BLUE ENGINEERING BRICKS OR PROPRIETARY DPC MEMBRANE.

MORTAR SHALL BE SAND LIME, MIX 1:1:6, WHERE REQUIRED, THE USE OF SULPHATE RESISTING CEMENT (E.G. BELOW GROUND) WILL BE USED.

EXTERNAL AND INTERNAL POINTING TO BE "BUCKET HANDLE" FINISH. OTHER POINTING STYLES, E.G. WEATHER STRUCK, RECESSED, ETC MAY ONLY BE USED WHERE REQUIRED TO MATCH ADJACENT BUILDINGS.

FINISHES

WALLS & CEILINGS SHALL RECEIVE TWO COATS OF WHITE EMULSION PAINT FOR DUST SEALING.

FLOORS SHALL RECEIVE TWO COATS OF GREY CONCRETE FLOOR PAINT.

DRAINAGE

ROOF GUTTERS TO BE UPVC 100mm HALF ROUND OR EQUIVALENT "SQUARE SCTION". ROOF DOWN PIPES ARE TO BE 63MM DIA OR EQUIVALENT "SQUARE SECTION" UPVC.
ALL GUTTERS AND FIXINGS TO BE BLACK UNLESS OTHERWISE REQUIRED TO MATCH ADJACENT BUILDINGS.
THE CONSTRUCTION OF THE HARD STANDING IN FRONT OF THE SUBSTATION SHALL BE SUCH THAT ALL WATER DRAINS AWAY FROM THE THRESHOLD OF THE DOOR.
ALL DRAINAGE MUST DISCHARGE INTO AN ADOPTED SURFACE WATER DRAINAGE SYSTEM.

ROOF CONSTRUCTION

ROOF MATERIALS SHALL BE SELECTED TO MAXIMISE DURABILITY CONSISTENT WITH THE ARCHITECTURAL OR PLANNING REQUIREMENT FOR THE SUBSTATION.
ALL TIMBER ROOFS SHALL BE VACUUM PROCESS PRESERVATIVE TREATED.
THE USE OF LEAD AS PART OF WATERPROOFING SYSTEMS SHOULD BE AVOIDED UNLESS ESSENTIAL.
ALL WORKS TO COMPLY WITH CURRENT EDITIONS OF MANUFACTURER'S TECHNICAL LITERATURE FOR PRODUCTS SELECTED.

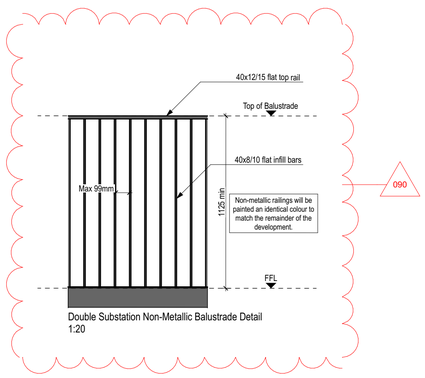
DECK

18MM POLYROOF APPROVED PLYWOOD SUCH AS FINNFOREST SPRUCE L L / L L L . LAY BOARDS STAGGERED WITH LONG EDGES 90° TO JOIST, WITH
3MM GAPS BETWEEN BOARDS AND 20MM AT WALL ABUTMENTS. END JOINTS TO BE CENTERED OVER ENSURE FIXINGS DO NOT PROTRUDE ABOVE
SURFACE OF BOARD. FIXINGS TO BE ANNULAR RINGSHANK NAILS 75MM. MINIMUM FIXINGS PER BOARD 24NR.

PLYWOOD DECKING TO BE DRY, SOUND AND FREE FROM LOOSE MATERIAL OR CONTAMINATION. TAPE JOINTS TO PLYWOOD DECKING WITH 75MM
POLYROOF GLASS FIBER TAPE. FIX IN PLACE ALL ROOF TRIMS. PLY DECK TO BE SECURED TO SW FIRINGS TO 1 IN 60 FALL, MIN 38MM THICK. C24 JOISTS
47 X 195 AT 400 CENTRES.
JOIST HANGERS RATED AT 2.7 KN (MIN) TO SUIT TIMBER JOISTS AND FIXED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS. ALL TIMBER TO BE
SCREW FIXED.

NOTE

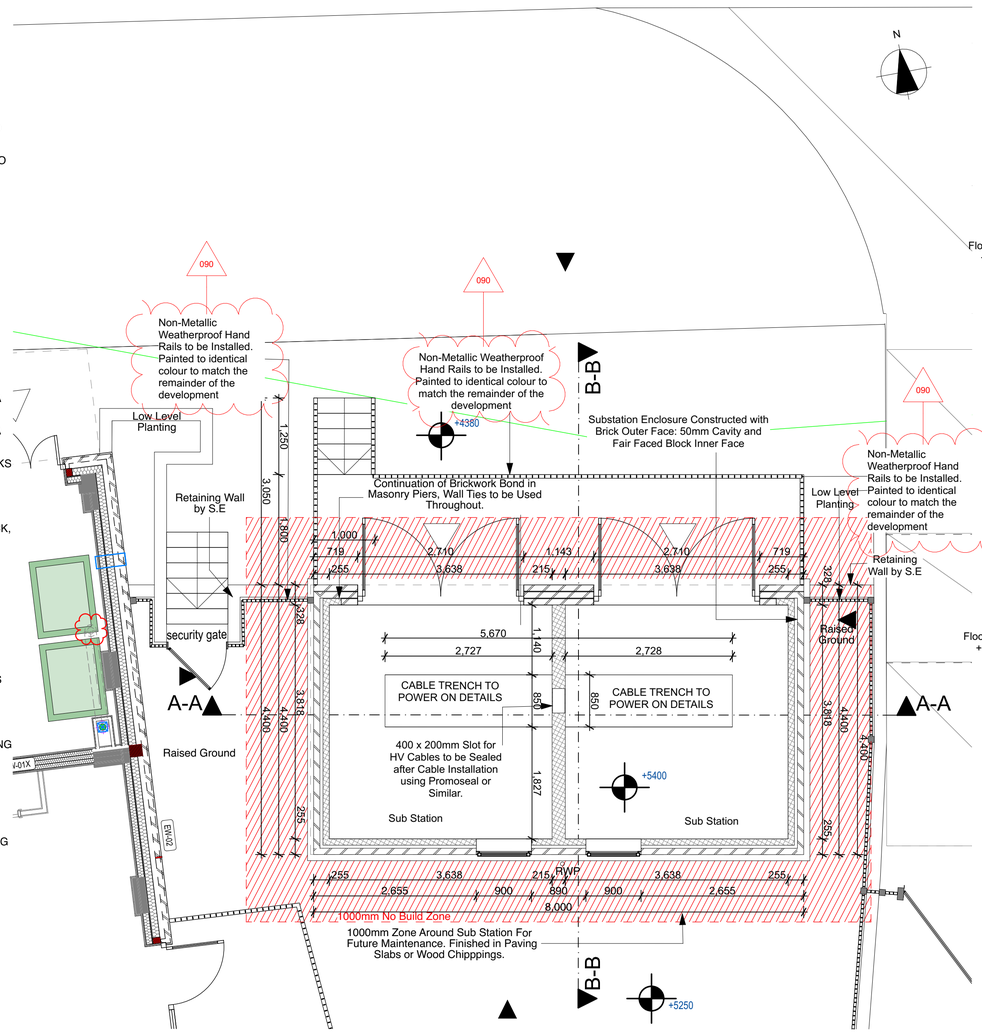
1. POWER ON's PRIOR APPROVAL IS REQUIRED FOR EACH INDIVIDUAL FLAT ROOF INSTALLATION.
2. INFORMATION ABOUT THE PROPOSED ROOFING
SYSTEM MUST BE FORMALLY SUBMITTED TO AND APPROVED BY POWER ON IN WRITING BEFORE INSTALLATION.
3. A MINIMUM GUARANTEE PERIOD OF 20 YEARS IS REQUIRED FOR EACH INSTALLATION
4. ONLY FULLY TRAINED AND MANUFACTURER APPROVED ROOFING CONTRACTORS TO BE USED
5. THE ROOF SYSTEM MUST HAVE A MINIMUM FIRE RATING OF 1 HOUR AND COMPLY WITH THE LOCAL FIRE REQUIREMENTS.
6. ROOFING SYSTEM MUST BE B.B.A. APPROVED

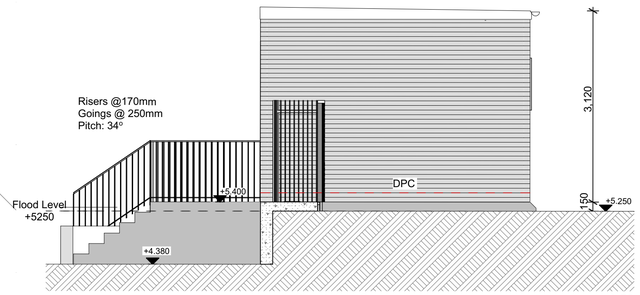


Double Substation Non-Metallic Balustrade Detail
1:20

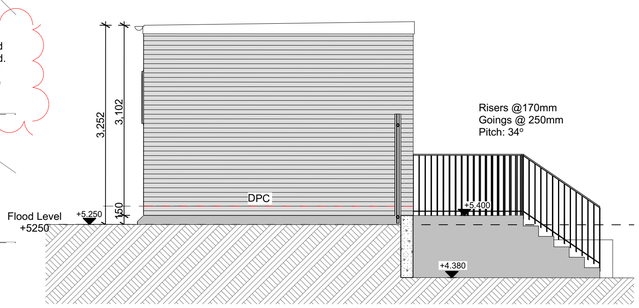
Refer to Power On for Full Specification and Information.

Information to be noted
- Power on to provide internal earthing
- Louvre to rear instead of side to ensure metal louvre are min 2m from any close proximity landscape railing
- Power On have no issue with the retaining walls within maintenance zone
- Railings to front of substation will need to be an non metallic product, Timber or plastic

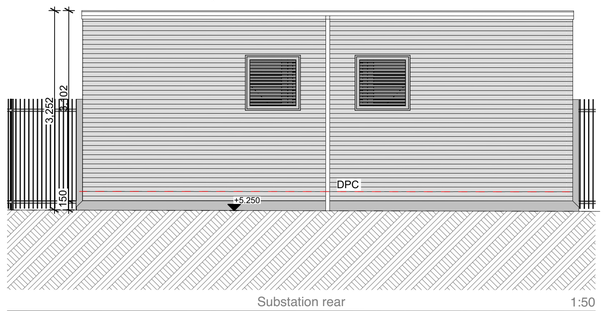




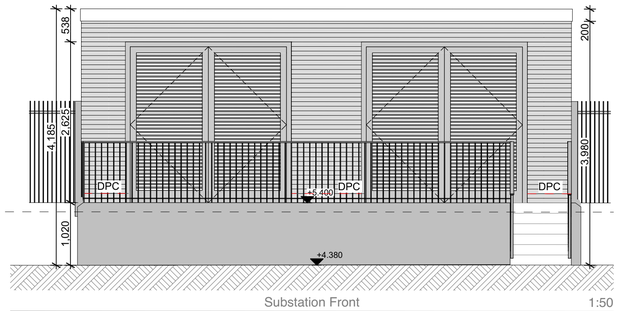
Substation Side 1:50



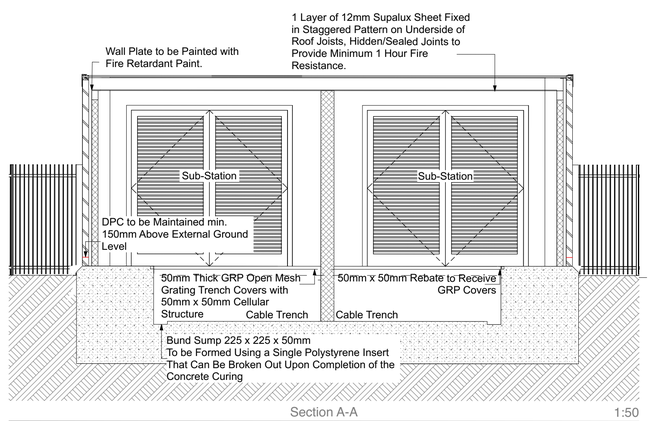
Substation Side 1:50



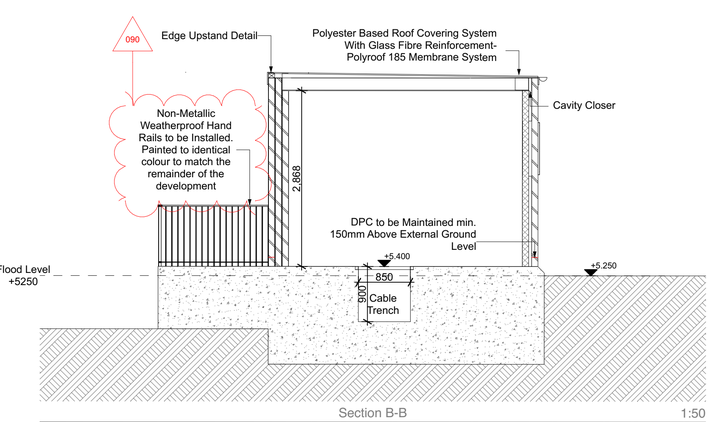
Substation rear 1:50



Substation Front 1:50



Section A-A 1:50



Section B-B 1:50

Please Note:

This drawing must not be scaled. Dimensions to be checked on site and any discrepancies are to be highlighted to the Architect prior to construction.

This drawing is to be read in conjunction with all other project drawings, construction notes and / or project specifications including those by other project consultants and specialists. All discrepancies should be reported immediately.

Prior to the commencement of any works, the Contractor is to check and / or determine all construction details including checking existing site levels and dimensions.

Design subject to detail development / approval. Measurements and accommodation schedules subject to amendments following coordinated input by others. Costings cannot be finalised until approval /confirmation by relevant authorities and Client.

Risk Schedule	
1	Specific health & safety risks associated with this building are highlighted, but not limited to the caution symbol adjacent to the item of risk. **Refer to risk schedule on individual drawing.**
1	Brief description of risk.
2	Brief description of risk.
3	Brief description of risk.
4	Brief description of risk.
5	Brief description of risk.

For further information refer to HGP's M06&M07 documents

For Discussion Only, Approval Required by Power On



Key Plan

Rev.	Description	Date	DB	CB
T4	Metalwork and earthing info added	24.03.23	RA	VC
T3	drawings issued to planners	03.02.23	RA	VC
T2				
T1	external substation amendments including planting, access steps etc			
P5	Stairs Changed and Substation Location Moved	29.07.22	JL	RA
P4	Stairs and Trench Updated and Dimensions Added	30.06.2022	JL	RA
P3	Footprint and Location Moved	29.06.2022	JL	RA
P2	Updated Following Comment	22.06.2022	JL	RA
P1	Initial Issue	21.06.2022	JL	RA

Date	16.06.2022
Drawn By/Checked By	JL/RA
Scale	1:50, 1:20@A1
Revision	**T4**
Project	**Kingston Wharf Shoreham**
Title	**Substation**
Dwg #	**20086-HGP-XX-XX-DR-A-1070**
Status	**Tender Issue**

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